



## Bedford County and the Town of Bedford

### Water Source Overview

Major sources include the James River, groundwater wells, and purchased water.

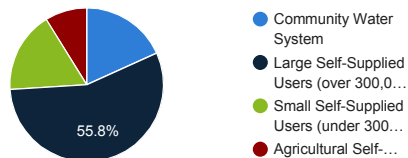
**\*Table 1:** Reported (2010) and projected (2040) water use by system type for Bedford County in MGD

Type	Reported Use 2010 MGD	Projected Use 2040 MGD
Community Water System	3.115	4.568
Large Self-Supplied Users (over 300,000 gal/month)	9.547	14.591
Small Self-Supplied Users (under 300,000 gal/month)	2.934	4.484
Agricultural Self-Supplied Users	1.505	1.505

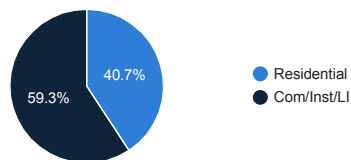
### Water Use by System Type

Approximately 38,636 people use private groundwater wells for residential water supply. All tables and graphs represent reported water use including Sales to other localities, if applicable.

**\*Figure 1:** Percentage of reported water use by system type in 2010 (No use data shown on graph if less than .01 MGD: Refer to Table 1)



**\*Figure 2:** Disaggregated water use percentages for Community Water Systems in 2010 (No graph shown if no disaggregated use data reported)



**\*Table 2:** Reported (2010) and projected (2040) groundwater and surface water use for Bedford County in MGD

Reported 2010 Groundwater Use (MGD)	Reported 2010 Surface Water Use (MGD)	Projected 2040 Groundwater Use (MGD)	Projected 2040 Surface Water Use (MGD)
8.13	8.97	11.99	13.16

**\*Figure 3:** Bedford County highlighted in the Commonwealth of Virginia



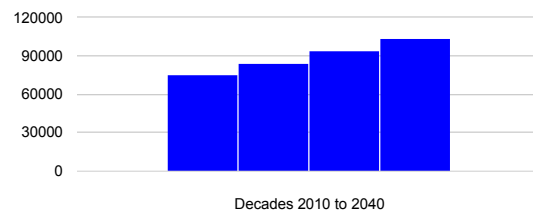
### Projected Water Demand

Population and demand are projected to increase through the planning period. Bedford County may experience a deficit of 0.004 MGD by 2015. Alternative water sources include the Lakes Regional Water Treatment Plant (Smith Mountain Lake) and an increased purchase from the City of Lynchburg.

**\*Table 3:** Bedford County population projections by decade from 2010 to 2040 (data gathered from VEC projections - 05/20/13)

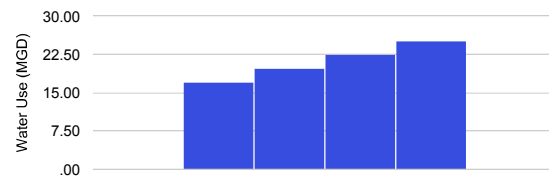
2010	2020	2030	2040	% Change (2010-2040)
74,898	83,882	93,426	103,502	39.2%

**\*Figure 4:** Bedford County population projections by decade for 2010, 2020, 2030 & 2040



**\*Table 4 & Figure 5:** Bedford County water demand trends by decade for 2010, 2020, 2030 & 2040 in MGD

Reported Use 2010 MGD	Projected Use 2020 MGD	Projected Use 2030 MGD	Projected Use 2040 MGD	Percent Change (2010-2040)
17.10	19.78	22.47	25.15	47.1%



### Drought Management Practices

The County and Town adopted ordinances for the implementation and enforcement of the Drought Response and Contingency Plan. [Region 2000 Regional WSP and the Roanoke Valley Alleghany Regional Commission Regional WSP]